

PATENT SPECIFICATION

DRAWINGS ATTACHED

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COMPLETE SPECIFICATION

Improvements relating to an Appliance for Pasting and Applying Paper Directly from the Roll to Ceiling or Walls

- I, ERNEST LESLIE WHICK, a British Subject, of 19, Priestley Road, Sparkbrook, Birmingham, 11, do hereby declare the invention, for which I pray that a patent may be granted to me, and the method by which it is to be performed, to be particularly described in and by the following statement:—
- This invention relates to appliances for pasting and applying wall paper direct from a roll to a ceiling or wall.
- In accordance with the present invention the appliance comprises a trough for containing paste, a roller for transferring paste from the trough to the paper, a pressure roller for maintaining the paper in contact with the transfer roller, a spindle for supporting the roll of paper and a smoothing pad offset from said rollers so that the paper forms a bight from the roll thereof, around the pressure roller and over said pad.
- One preferred embodiment of the invention is now described by way of example only with reference to the accompanying drawing, wherein:—
- Figure 1 is a plan view of the paper hanging appliance and
- Figure 2 is a section on the line 2—2 thereof on an enlarged scale and showing the appliance in use.
- The appliance shown in the drawing comprises a trough 10 having a pair of inclined side walls 11, 12 each of which terminates in a rolled or beaded edge 13 and which are unitary with a bottom wall 14. The trough is slightly longer than the normal width of wall paper, namely about 22", and end walls 15 of the trough are extended laterally of and above the trough to form guide brackets 16. The brackets 16 are spanned by a reinforcing bar 17 located above and slightly to one side of the mouth of the trough.
- The brackets journal a pair of rollers comprising a transfer roller 18 and a pressure roller 19. The pressure roller 19 may have a yieldable surface although this is not essential, if the transfer roller 18 has a surface which is yieldable: the latter surface is also porous. Both rollers may comprise lengths of tube covered with, for example, polyurethane foam. The brackets also pivotally mount a spindle 20 adapted to support a roll of wall paper 21.
- The rollers 18, 19 may be retained in position in the brackets for example by fixed trunnion pins 22, 23 projecting through one of the brackets and into the rollers, and by releasable, for example spring loaded trunnion pins 24, 25 projecting through the other of the brackets into the rollers. Many alternative mountings for the rollers are possible, for example by utilising hemi-spherical or other projections from the brackets which snap-engage recesses in the end walls of the rollers, or pins on the rollers themselves which engage in slots or holes in the brackets. The spindle 20 is maintained in position by similar means.
- The relative spacings of the axes of the two rollers and the spindle 20 is such that wall paper being unwound from the roll 21 passes tangentially from the latter to the transfer roller 18 and extends around the periphery of the latter for a period before reversing its curvature and following the contour of the pressure roller 19 and extending back in the second limb of a bight to the bar 17. The pressure roller 19 serves not only to maintain the paper in contact with the transfer roller 18 but also maintains constant pressure of the latter on the transfer roller. If the roll 21 is of maximum diameter the paper may pass into contact with the beaded edge 13 located between the roll 21 and the roller 18 but when some of the paper has been unwound and

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the roll is of smaller diameter it will usually clear this beaded edge.

The roller 18 is preferably a close fit between both inclined walls of the trough so that the space between the roller and the bottom wall of the trough which contains the paste is closed by the roller. Consequently loss of paste from between the roller periphery and the side walls of the trough is prevented in any position of the trough.

The bar 17 may be provided with a smoothing pad 26 also made of foamed plastics material, foam rubber, or other yielding and preferably resilient material for a purpose to be described hereinafter.

In use the wall paper is mounted on the spindle 20 and is fed between the rollers and over the smoothing pad 26 in the manner shown in Figure 2 of the drawing. As the paper is pulled through the nip of the rollers the transfer roller is rotated and smears paste upon the surface of the wall paper. If the leading end of the paper is placed in position upon one end 27 of a ceiling and the appliance is moved along the ceiling with the smoothing pad 26 pressed firmly towards the ceiling, the paper is automatically pasted and laid along the length of the ceiling. At the end of the ceiling the applied paper is severed from the bight and the last few inches of the paper, which are already pasted may be smoothed into place in known manner. The device may also be used for hanging paper from walls in which case it is preferably moved vertically downwards from the ceiling end of the wall towards the floor, and in this position the close fit between the transfer roller and the side walls of the trough prevent leakage of paste.

In a modification intended for use with more liquid pastes the trough may be wider than the transfer roller and the pad 26 may be provided above and to the opposite side of the pressure roller 19 so that the trough may be maintained in a horizontal position irrespective of whether paper is being applied to a ceiling or wall.

The brackets 16 extend radially beyond the pressure roller at 28 to form guides for the lateral edges of the paper and constrain the latter into a predetermined relationship with the appliance. If desired one or other bracket 16 may have a separate guide piece which is movable towards or away from the

other to compensate for different widths of paper.

In another modification the smoothing pad is stepped down from the position shown in the drawing so that the pressure roller also serves to press the paper into contact with the wall or ceiling and is followed up by the smoothing roller which smooths out the paper. In this case it may be desirable to re-position the guides 28 to avoid fouling the wall or ceiling.

WHAT I CLAIM IS:—

1. An appliance for pasting a roll of paper comprising a trough for containing paste, a roller for transferring paste from the trough to the paper of the roll, a pressure roller for maintaining the paper in contact with the transfer roller, a spindle for supporting the roll of paper, and a smoothing pad offset from said rollers so that in use the paper extends in a bight from the roll thereof around the pressure roller and over said pad.

2. An appliance as claimed in Claim 1, wherein the transfer roller is provided with a yielding porous surface.

3. An appliance as claimed in Claim 2, wherein the transfer roller is a close fit against at least one side wall of the trough.

4. An appliance as claimed in any of the preceding Claims, wherein the trough is connected to brackets which journal the said spindle and pressure roller.

5. An appliance as claimed in Claim 1 and Claim 4, wherein said brackets are spanned by a support for the smoothing pad.

6. An appliance as claimed in any preceding Claim, wherein at least said spindle and said pressure roller are removable from the appliance for facilitating loading of the appliance with a roll of paper.

7. An appliance as claimed in any of Claims 1 to 6, wherein guides are provided extending at least beyond the periphery of the pressure roller to engage lateral edges of the paper and constrain the latter into a predetermined path.

8. A paper pasting appliance substantially as hereinbefore described with reference to the accompanying drawings.

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COMPLETE SPECIFICATION

1 SHEET

This drawing is a reproduction of
the Original on a reduced scale

FIG.1.

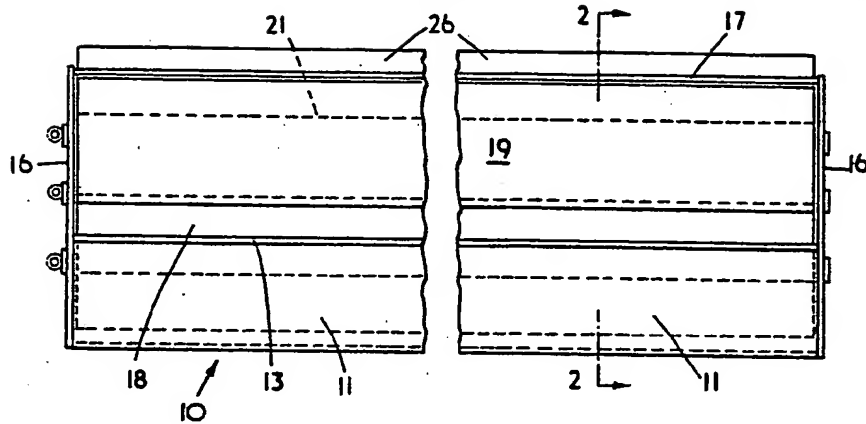
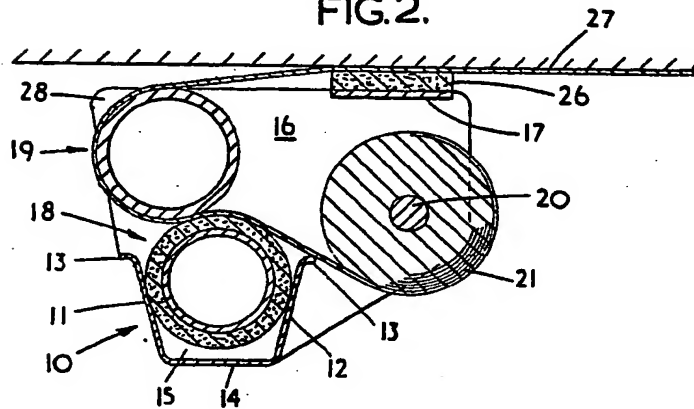


FIG.2.



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